WISMO Quik Q2400 series

Delta between Q2403 and Q24x6

Reference : WM_PRJ_Q2400_PTS_004
Level : 002
Date : 24th Nov 2003

This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.

Document Information

Level	Date	History of the evolution	Writer
001	24/10/02	Creation (Preliminary version)	MDS
002	24/11/03	Title Modification First non preliminary version Ref. Modification : WM_PRJ_Q24x6_PDS_001 to WM_PRJ_Q2400_PTS_004. Q24x6E replaces Q24x6C 1.2 « Power supply differences" chapter, add of an "Attention" paragraph. 1.4 "Mechanical differences (Q24X6E only)" chapter, add of an "Attention" paragraph.	MDS

This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.

Contents

Document Information **2**

Contents **3**

Caution **4**

Trademarks **4**

Overview **5**

1 Q24x6 Versus Q2403 ..... **6**

1.1 Functional differences 6
1.2 Power supply differences 7
1.3 General Purpose Connector pin out differences 7
1.4 Mechanical differences (Q24X6E only) 7

2 Reference documents **8**

confidential ©
This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.

Caution

Information furnished herein by Wavecom are accurate and reliable. However no responsibility is assumed for its use.

General information about Wavecom and its range of products is available at the following internet address: http://www.wavecom.com

Trademarks

Some mentioned products are registered trademarks of their respective companies.

This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.

Overview

This document sums up the differences between the Q24x6 products and the previous Q2403 product.

This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.

1 Q24x6 Versus Q2403

The Q24x6 is an evolution of the Q2403 with which it is hardware and software compatible.

However the Q24x6 includes some new features and differences with the Q2403 which are listed in the following paragraphs.

1.1 Functional differences

Q2403	Q24x6
Q2403 : EGSM/GPRS CL 2 900/1800 MHz	**Q2406 :** EGSM/GPRS **CL 10 900/1800** MHz **Q2426 :** EGSM/GPRS **CL 10 850/1900** MHz **Addition of the GPRS CL 10 Mode.** **Creation of a version in the 850/1900 dual-band.**
Q2403A : version with **16** Mb of Flash memory and **2** Mb of SRAM. **Q2403B :** version with **32** Mb of Flash memory and **4** Mb of SRAM.	**Q24x6A** *(1)* **:** version with **16** Mb of Flash memory and **2** Mb of SRAM. **Q24x6B***(1)* **:** version with **32** Mb of Flash memory and **4** Mb of SRAM. **Q24x6E** *(1)* **:** version with **64** Mb of Flash memory and **4** Mb of SRAM. **Addition of 1 version with 64 Mb of Flash memory and 4 Mb of SRAM.**
Only one serial Link on the Q2403	Two serial Link on the Q24x6A and Q24x6B **Addition of and Auxiliary serial Link on Q24x6A and Q24x6B.** **(not available on Q24x6E)** *(1)*
6 General Purpose I/O, **3** General Purpose Outputs and 1 General Purpose Input.	6 General Purpose I/O, **4** General Purpose Outputs and 1 General Purpose Input. **Addition of One GPIO (GPIO3 multiplexed with SPI_EN).**

(1) Q24x6 = Q2406 or Q2426.

This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.

1.2 Power supply differences

Power supply differences are due to the addition of the GPRS CL10 mode which is more demanding than GSM or GPRS CL 2 in term of power consumption.

See the Products specifications (**[1]** & **[2]**) for more information.

Attention: when replacing a Q2403 by a Q24x6 on an existing application the power supply characteristics must be carefully checked to verify that it can support the new product.

1.3 General Purpose Connector pin out differences

Pin #	Q2403		Q24x6		
	Signal Name	Function	Signal Name	Function	Q24x6 Addition
18	GPI	General Purpose Input	GPI or CT103/TXD2	General Purpose Input or UART 2	Addition of Auxiliary Serial interface, UART2 (multiplexed with GPI) *
20	GPO2	General Purpose Output	GPO2 or XT104/RXD2	General Purpose Output or UART 2	Addition of Auxiliary Serial interface, UART2 (multiplexed with GPO2) *
24	GPIO0	General Purpose I/O	GPIO0 or CT106/CTS2	General Purpose I/O or UART 2	Addition of Auxiliary Serial interface, UART2 (multiplexed with GPIO0) *
28	SPI_EN	SPI enable	SPI_EN or GPO3	SPI enable or General Purpose Output	Addition of a General Purpose Output
35	GPIO5	General Purpose I/O	GPIO5 or CT105/RTS2	General Purpose I/O or UART 2	Adding of Auxiliary Serial interface, UART2 (multiplexed with GPIO5) *

* Not avalaible on Q24x6E

1.4 Mechanical differences (Q24X6E only)

Modification of the Matching antenna area on the Q24x6E with 0402 footprint for the matching components (0603 for the Q2403).

Attention: when replacing a matched Q2403 by a Q24x6E on an existing application it is necessary to re-do the matching calculation.

This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.

2 Reference documents

[1] WISMO Quik Q2400 series - Q2403 Product Specification (Ref. : WM_PRJ_Q2400_PTS_001).

[2] WISMO Quik Q2400 series – Q2406 and Q2426 Product Specification (Ref. WM_PRJ_Q2400_PTS_002).

This document is the sole and exclusive property of WAVECOM. Not to be distributed or divulged without prior written agreement.
Ce document est la propriété exclusive de WAVECOM. Il ne peut être communiqué ou divulgué à des tiers sans son autorisation préalable.